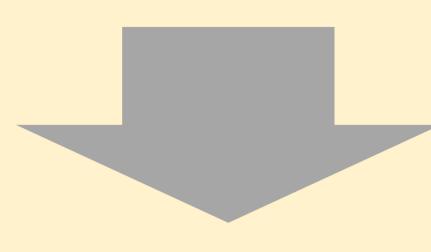


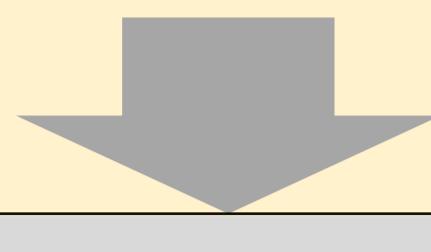
## UAS thermographic sequence (30 Hz)



sub-sampling

**10 Hz sequence**

**1 Hz sequence**



**Original thermogram**

1. Vignetting correction
2. Geometric correction



**Corrected thermogram**

3. Image registration



**Registered thermogram sequence**

4. Georeferencing



**Georeferenced thermogram sequence**

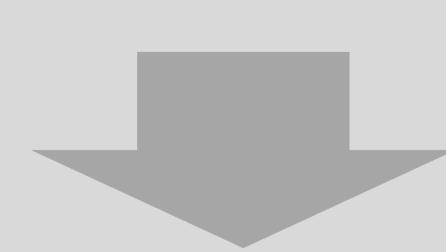
5. Derived parameter calculation ( $\bar{T}$ ,  $T'$ ,  $dT/dt$ )



**Derived parameters ( $\bar{T}$ ,  $T'$ ,  $dT/dt$ ), statistics**

Turbulence characterization:

6. wavelet/spectral



**Turbulent eddy properties (size, area, motion)**

Intrinsic coordinate system

Intrinsic coordinate system

Quality assessment

UTM35 coordinate system

Quality assessment

UTM35 coordinate system

Quality assessment

UTM35 coordinate system

Statistical analyses

Common processing steps

Study-specific processing steps